

# PATENT ABSTRACTS OF JAPAN

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## (54) IMAGE READER

### (57)Abstract:

**PURPOSE:** To suppress a change in an image output due to a change in temperature by providing the image reader with an image sensor having the 1st photoelectric conversion element for reading out the reflected light of an original and the 2nd photoelectric conversion element interrupted from light and a signal correcting means for correcting an image signal outputted from the 1st element by an output signal from the 2nd element.

**CONSTITUTION:** A shift register 101 for shifting charge proportional to the quantity of light emitted from respective photoelectric conversion elements successively to the post stage, a photodiode 102 being a photoelectric conversion element for converting an image signal into an electric signal, a photoelectric conversion element 103 having a similar function to an element with its photodetecting part of the photoelectric conversion element light-shielded, image output signal buffer amplifiers 104, 105. and a differential amplifier 106 for subtracting a dark part image output signal from an image output signal are integrated. When one of two image reading element is light-shielded, the image output signal of the other element can be corrected. Thereby, a change in an image output due to the partial or overall temperature change of the image sensor can be suppressed.

